

HUDWALKER & ASSOCIATES INC

Consulting Engineers
P O Box 676
FARMINGTON MISSOURI 63640

(314) 756 6775

TO Ecology & Environment
6405 Metcalf Building 3
Overland Park KS 66202

LETTER OF TRANSMITTAL

DATE <u>9-9-89</u>	JOB NO
ATTENT ON <u>Mr Bob Oberklit</u>	
RE <u>St Francis County, MO</u>	
<u>Sanitary Landfill</u>	
<u>(Deerlog Tailings Plg)</u>	

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items

- ☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ Report

COPIES	DATE	NO	DESCRIPTION
<u>1</u>			<u>3rd Quarter Groundwater Monitoring Report</u>

THESE ARE TRANSMITTED as checked below

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

07CR

Site <u>Big River Area</u>
ID# <u>1005781120089</u>
Break <u>13</u>
Other: <u>MDNR</u>
<u>9-9-89</u>

40099433



SUPERFUND RECORDS

COPY TO _____

SIGNED

E. Hudwalker

3RD QTR WASTE MANAGEMENT-WATER MONITORING REPORT

FACILITY ST FRANCOIS COUNTY SANITARY LANDFILL
 PERMIT NO 118701 POINT NO 101

DATE RECEIVED BY LAB August 7, 1989 CHAIN OF CUSTODY WITH EACH SAMPLE ☒ YES NO

SAMPLES RECEIVED PROPERLY PRESERVED ☒ YES NO SAMPLES ANALYZED WITHIN HOLDING TIME ☒ YES NO

LAB NAME Laboratory

LAB ADDRESS 529 Broadway

LAB ADDRESS Cape Girardeau, MO 63701

LAB TELEPHONE (314) 334-8910

LAB SUPERVISOR'S SIGNATURE John Shadoff

NOTE - QL MEANS THE REASONABLY ACCEPTABLE QUANTITATIVE LIMIT FOR EACH PARAMETER IN THE SPECIFIED UNITS FOR LOWER VALUES, PLACE A LESS THAN SIGN (<) IN FRONT OF VALUES

COD (CHEMICAL OXYGEN DEMAND) QL=5 109 MG/L

CL (CHLORIDE) QL=1 429 MG/L

TDS (TOTAL DISSOLVED SOLIDS) QL=1 718.5 MG/L (SHOULD BE FIELD FILTERED)

FE (IRON) QL=100 <80 UG/L (SHOULD BE FIELD FILTERED)

PH (UNITS) 7.5 MG/L COND (CONDUCTIVITY) AT 25 C UMHO/CM 1146 MG/L

ELEVATION OF REFERENCE POINT _____

WATER LEVEL (DEPTH FROM REFERENCE POINT TO WATER) FT 26.8

DATE COLLECTED 8-7-89 COLLECTED BY LANDFILL ☒ LAB (CIRCLE ONE)

COLLECTOR'S NAME Todd Robitsch

METALS FIELD FILTERED ☒ YES NO

WELL RECHARGES WITHIN 24 HOURS ☒ YES NO RECHARGES TOO SLOWLY TO SAMPLE YES ☒ NO

WELL VOLUMES REMOVED 2 PURGING PARAMETERS STABILIZED ☒ YES NO

SAMPLE COLLECTED BY ☒ BAILER PUMP OTHER (CIRCLE ONE)

TYPE OF SAMPLE ☒ WELL WITHOUT PUMP WELL WITH PUMP SURFACE SAMPLE (CIRCLE ONE)

COLLECTOR'S COMMENTS _____

PLEASE FORWARD TO DEPARTMENT OF NATURAL RESOURCES
 WASTE MANAGEMENT PROGRAM-ENFORCEMENT SECTION
 P O BOX 176
 JEFFERSON CITY, MISSOURI 65102

 * 1ST QUARTER - SAMPLES TAKEN BY END OF FEBRUARY FORMS SUBMITTED BY END OF MAY
 * 3RD QUARTER - SAMPLES TAKEN BY END OF AUGUST FORMS SUBMITTED BY END OF SEPTEMBER
 * 4TH QUARTER - SAMPLES TAKEN BY END OF NOVEMBER FORMS SUBMITTED BY END OF DECEMBER

3RD QTR WASTE MANAGEMENT-WATER MONITORING REPORT

FACILITY ST FRANCOIS COUNTY SANITARY LANDFILL
 PERMIT NO 118701 POINT NO 102

DATE RECEIVED BY LAB August 7, 1989 CHAIN OF CUSTODY WITH EACH SAMPLE ☒ YES NO
 SAMPLES RECEIVED PROPERLY PRESERVED ☒ YES NO SAMPLES ANALYZED WITHIN HOLDING TIME ☒ YES NO
 LAB NAME 529 Broadway
 LAB ADDRESS Cape Girardeau, MO 63701
 LAB TELEPHONE (314) 334-8910
 LAB SUPERVISOR'S SIGNATURE John Shaduck

NOTE - QL MEANS THE REASONABLY ACCEPTABLE QUANTITATIVE LIMIT FOR EACH PARAMETER IN THE SPECIFIED UNITS FOR LOWER VALUES, PLACE A LESS THAN SIGN (<) IN FRONT OF VALUES

COD (CHEMICAL OXYGEN DEMAND) QL=5 _____ MG/L
 CL (CHLORIDE) QL=1 _____ MG/L
 TDS (TOTAL DISSOLVED SOLIDS) QL=1 _____ MG/L (SHOULD BE FIELD FILTERED)
 FE (IRON) QL=100 _____ UG/L (SHOULD BE FIELD FILTERED)

PH (UNITS) _____ MG/L COND (CONDUCTIVITY) AT 25 C UMHO/CM _____ MG/L

ELEVATION OF REFERENCE POINT _____

WATER LEVEL (DEPTH FROM REFERENCE POINT TO WATER) FT _____

DATE COLLECTED _____ COLLECTED BY LANDFILL LAB (CIRCLE ONE)

COLLECTOR S NAME _____

METALS FIELD FILTERED YES NO

WELL RECHARGES WITHIN 24 HOURS YES NO RECHARGES TOO SLOWLY TO SAMPLE YES NO

WELL VOLUMES REMOVED _____ PURGING PARAMETERS STABILIZED YES NO

SAMPLE COLLECTED BY BAILER PUMP OTHER (CIRCLE ONE)

TYPE OF SAMPLE WELL WITHOUT PUMP WELL WITH PUMP SURFACE SAMPLE (CIRCLE ONE)

COLLECTOR S COMMENTS DRY

PLEASE FORWARD TO DEPARTMENT OF NATURAL RESOURCES
 WASTE MANAGEMENT PROGRAM-ENFORCEMENT SECTION
 P O BOX 176
 JEFFERSON CITY, MISSOURI 65102

 * 1ST QUARTER - SAMPLES TAKEN BY END OF FEBRUARY FORMS SUBMITTED BY END OF MAY
 * 3RD QUARTER - SAMPLES TAKEN BY END OF AUGUST FORMS SUBMITTED BY END OF SEPTEMBER
 * 4TH QUARTER - SAMPLES TAKEN BY END OF NOVEMBER FORMS SUBMITTED BY END OF DECEMBER

3RD QTR WASTE MANAGEMENT-WATER MONITORING REPORT

FACILITY ST FRANCOIS COUNTY SANITARY LANDFILL
PERMIT NO 118701 POINT NO 103

DATE RECEIVED BY LAB August 7, 1989 CHAIN OF CUSTODY WITH EACH SAMPLE: ☒ YES ☐ NO
SAMPLES RECEIVED PROPERLY PRESERVED ☒ YES ☐ NO SAMPLES ANALYZED WITHIN HOLDING TIME ☒ YES ☐ NO
LAB NAME Larson Laboratory
LAB ADDRESS 529 Broadway
LAB ADDRESS Cape Girardeau, MO 63701
LAB TELEPHONE (314) 334-8910
LAB SUPERVISOR S SIGNATURE John Shaduck

NOTE - QL MEANS THE REASONABLY ACCEPTABLE QUANTITATIVE LIMIT FOR EACH PARAMETER IN THE SPECIFIED UNITS FOR LOWER VALUES, PLACE A LESS THAN SIGN (<) IN FRONT OF VALUES

COD (CHEMICAL OXYGEN DEMAND) QL=5 37.7 MG/L
CL (CHLORIDE) QL=1 45.9 MG/L
TDS (TOTAL DISSOLVED SOLIDS) QL=1 1158 MG/L (SHOULD BE FIELD FILTERED)
FE (IRON) QL=100 2410 UG/L (SHOULD BE FIELD FILTERED)

PH (UNITS) 6.8 MG/L COND (CONDUCTIVITY) AT 25 C UMHO/CM 1634 MG/L

ELEVATION OF REFERENCE POINT _____

WATER LEVEL (DEPTH FROM REFERENCE POINT TO WATER) FT 5.4

DATE COLLECTED Aug 7, 1989 COLLECTED BY LANDFILL ☒ LAB (CIRCLE ONE)

COLLECTOR S NAME Todd Roberts

METALS FIELD FILTERED ☒ YES ☐ NO

WELL RECHARGES WITHIN 24 HOURS ☒ YES ☐ NO RECHARGES TOO SLOWLY TO SAMPLE YES ☒ NO

WELL VOLUMES REMOVED 2 PURGING PARAMETERS STABILIZED ☒ YES ☐ NO

SAMPLE COLLECTED BY ☒ BAILER ☐ PUMP ☐ OTHER (CIRCLE ONE)

TYPE OF SAMPLE ☒ WELL WITHOUT PUMP ☐ WELL WITH PUMP ☐ SURFACE SAMPLE (CIRCLE ONE)

COLLECTOR S COMMENTS _____

PLEASE FORWARD TO DEPARTMENT OF NATURAL RESOURCES
WASTE MANAGEMENT PROGRAM-ENFORCEMENT SECTION
P O BOX 176
JEFFERSON CITY, MISSOURI 65102

* 1ST QUARTER - SAMPLES TAKEN BY END OF FEBRUARY FORMS SUBMITTED BY END OF MAY
* 3RD QUARTER - SAMPLES TAKEN BY END OF AUGUST FORMS SUBMITTED BY END OF SEPTEMBER
* 4TH QUARTER - SAMPLES TAKEN BY END OF NOVEMBER FORMS SUBMITTED BY END OF DECEMBER

3RD QTR WASTE MANAGEMENT-WATER MONITORING REPORT

FACILITY ST FRANCOIS COUNTY SANITARY LANDFILL
PERMIT NO 118701 POINT NO 104

DATE RECEIVED BY LAB August 7, 1989 CHAIN OF CUSTODY WITH EACH SAMPLE ☒ YES ☐ NO

SAMPLES RECEIVED PROPERLY PRESERVED: ☒ YES ☐ NO SAMPLES ANALYZED WITHIN HOLDING TIME ☒ YES ☐ NO

LAB NAME Larron Laboratory

LAB ADDRESS 523 Broadway

LAB TELEPHONE Capri (Missouri) MO 63701
(314) 334-8970

LAB SUPERVISOR'S SIGNATURE

John Shadrach

NOTE - QL MEANS THE REASONABLY ACCEPTABLE QUANTITATIVE LIMIT FOR EACH PARAMETER IN THE SPECIFIED UNITS FOR LOWER VALUES, PLACE A LESS THAN SIGN (<) IN FRONT OF VALUES

COD (CHEMICAL OXYGEN DEMAND) QL=5 150 MG/L

CL (CHLORIDE) QL=1 444 MG/L

TDS (TOTAL DISSOLVED SOLIDS) QL=1 11915 MG/L (SHOULD BE FIELD FILTERED)

FE (IRON) QL=100 <80 UG/L (SHOULD BE FIELD FILTERED)

PH (UNITS) 7.3 MG/L

COND (CONDUCTIVITY) AT 25 C UMHO/CM 1670 MG/L

ELEVATION OF REFERENCE POINT _____

WATER LEVEL (DEPTH FROM REFERENCE POINT TO WATER) FT 444

DATE COLLECTED 8-7-89 COLLECTED BY LANDFILL ☒ LAB (CIRCLE ONE)

COLLECTOR'S NAME Todd Robitsek

METALS FIELD FILTERED ☒ YES ☐ NO

WELL RECHARGES WITHIN 24 HOURS ☒ YES ☐ NO RECHARGES TOO SLOWLY TO SAMPLE YES ☒ NO

WELL VOLUMES REMOVED 2 PURGING PARAMETERS STABILIZED ☒ YES ☐ NO

SAMPLE COLLECTED BY ☒ BAILER ☐ PUMP OTHER (CIRCLE ONE)

TYPE OF SAMPLE ☒ WELL WITHOUT PUMP ☐ WELL WITH PUMP ☐ SURFACE SAMPLE (CIRCLE ONE)

COLLECTOR'S COMMENTS _____

PLEASE FORWARD TO DEPARTMENT OF NATURAL RESOURCES
WASTE MANAGEMENT PROGRAM-ENFORCEMENT SECTION
P O BOX 176
JEFFERSON CITY, MISSOURI 65102

* 1ST QUARTER - SAMPLES TAKEN BY END OF FEBRUARY FORMS SUBMITTED BY END OF MAY
* 3RD QUARTER - SAMPLES TAKEN BY END OF AUGUST FORMS SUBMITTED BY END OF SEPTEMBER
* 4TH QUARTER - SAMPLES TAKEN BY END OF NOVEMBER FORMS SUBMITTED BY END OF DECEMBER

3RD QTR WASTE MANAGEMENT-WATER MONITORING REPORT

FACILITY ST FRANCOIS COUNTY SANITARY LANDFILL
PERMIT NO 118701 POINT NO 105

DATE RECEIVED BY LAB August 7, 1989 CHAIN OF CUSTODY WITH EACH SAMPLE ☒ YES NO
SAMPLES RECEIVED PROPERLY PRESERVED ☒ YES NO SAMPLES ANALYZED WITHIN HOLDING TIME ☒ YES NO
LAB NAME Larron Laboratory
LAB ADDRESS 529 Broadway
LAB ADDRESS Cape Girardeau, MO 63701
LAB TELEPHONE (314) 334-8910
LAB SUPERVISOR'S SIGNATURE John Shadue

NOTE - QL MEANS THE REASONABLY ACCEPTABLE QUANTITATIVE LIMIT FOR EACH PARAMETER IN THE SPECIFIED UNITS FOR LOWER VALUES, PLACE A LESS THAN SIGN (<) IN FRONT OF VALUES

COD (CHEMICAL OXYGEN DEMAND) QL=5 _____ MG/L
CL (CHLORIDE) QL=1 _____ MG/L
TDS (TOTAL DISSOLVED SOLIDS) QL=1 _____ MG/L (SHOULD BE FIELD FILTERED)
FE (IRON) QL=100 _____ UG/L (SHOULD BE FIELD FILTERED)

PH (UNITS) _____ MG/L COND (CONDUCTIVITY) AT 25 C UMHO/CM _____ MG/L

ELEVATION OF REFERENCE POINT _____

WATER LEVEL (DEPTH FROM REFERENCE POINT TO WATER) FT _____

DATE COLLECTED _____ COLLECTED BY LANDFILL LAB (CIRCLE ONE)

COLLECTOR S NAME _____

METALS FIELD FILTERED YES NO

WELL RECHARGES WITHIN 24 HOURS YES NO RECHARGES TOO SLOWLY TO SAMPLE YES NO

WELL VOLUMES REMOVED _____ PURGING PARAMETERS STABILIZED YES NO

SAMPLE COLLECTED BY BAILER PUMP OTHER (CIRCLE ONE)

TYPE OF SAMPLE WELL WITHOUT PUMP WELL WITH PUMP SURFACE SAMPLE (CIRCLE ONE)

COLLECTOR S COMMENTS DRY

PLEASE FORWARD TO DEPARTMENT OF NATURAL RESOURCES
WASTE MANAGEMENT PROGRAM-ENFORCEMENT SECTION
P O BOX 176
JEFFERSON CITY, MISSOURI 65102

* 1ST QUARTER - SAMPLES TAKEN BY END OF FEBRUARY FORMS SUBMITTED BY END OF MAY
* 3RD QUARTER - SAMPLES TAKEN BY END OF AUGUST FORMS SUBMITTED BY END OF SEPTEMBER
* 4TH QUARTER - SAMPLES TAKEN BY END OF NOVEMBER FORMS SUBMITTED BY END OF DECEMBER

3RD QTR WASTE MANAGEMENT-WATER MONITORING REPORT

FACILITY ST FRANCOIS COUNTY SANITARY LANDFILL
PERMIT NO 118701 POINT NO 106

DATE RECEIVED BY LAB August 7, 1989 CHAIN OF CUSTODY WITH EACH SAMPLE ☒ YES NO
SAMPLES RECEIVED PROPERLY PRESERVED ☒ YES NO SAMPLES ANALYZED WITHIN HOLDING TIME ☒ YES NO
LAB NAME Larron Laboratory
LAB ADDRESS 529 Broadway
LAB ADDRESS Cape Girardeau, MO 63701
LAB TELEPHONE (314) 334-8910
LAB SUPERVISOR'S SIGNATURE John Shaduck

NOTE - QL MEANS THE REASONABLY ACCEPTABLE QUANTITATIVE LIMIT FOR EACH PARAMETER IN THE SPECIFIED UNITS FOR LOWER VALUES, PLACE A LESS THAN SIGN (<) IN FRONT OF VALUES

COD (CHEMICAL OXYGEN DEMAND) QL=5 256 MG/L
CL (CHLORIDE) QL=1 157 MG/L
TDS (TOTAL DISSOLVED SOLIDS) QL=1 1034 MG/L (SHOULD BE FIELD FILTERED)
FE (IRON) QL=100 1280 UG/L (SHOULD BE FIELD FILTERED)

PH (UNITS) 6.7 MG/L COND (CONDUCTIVITY) AT 25 C UMHO/CM 1823 MG/L

ELEVATION OF REFERENCE POINT _____

WATER LEVEL (DEPTH FROM REFERENCE POINT TO WATER) FT 3.9

DATE COLLECTED 8-7-89 COLLECTED BY LANDFILL ☒ LAB (CIRCLE ONE)

COLLECTOR S NAME Todd Robitsch

METALS FIELD FILTERED ☒ YES NO

WELL RECHARGES WITHIN 24 HOURS ☒ YES NO RECHARGES TOO SLOWLY TO SAMPLE ☒ YES NO

WELL VOLUMES REMOVED 2 PURGING PARAMETERS STABILIZED ☒ YES NO

SAMPLE COLLECTED BY ☒ BAILER PUMP OTHER (CIRCLE ONE)

TYPE OF SAMPLE ☒ WELL WITHOUT PUMP WELL WITH PUMP SURFACE SAMPLE (CIRCLE ONE)

COLLECTOR S COMMENTS _____

PLEASE FORWARD TO DEPARTMENT OF NATURAL RESOURCES
WASTE MANAGEMENT PROGRAM-ENFORCEMENT SECTION
P O BOX 176
JEFFERSON CITY, MISSOURI 65102

* 1ST QUARTER - SAMPLES TAKEN BY END OF FEBRUARY FORMS SUBMITTED BY END OF MAY
* 3RD QUARTER - SAMPLES TAKEN BY END OF AUGUST FORMS SUBMITTED BY END OF SEPTEMBER
* 4TH QUARTER - SAMPLES TAKEN BY END OF NOVEMBER FORMS SUBMITTED BY END OF DECEMBER
